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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

RICHARD J. MITCHELL (Depositor's name)
[Signature] (Signature)
03/24/2004 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,828	11/13/2001	Muthukumaran Packirisamy	12351-US	6159

TITLE OF INVENTION: PLANAR WAVEGUIDE ECHELLE GRATING DEVICE WITH ASTIGMATIC GRATING FACETS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	03/24/2004
EXAMINER	ART UNIT	CLASS-SUBCLASS			
KIM, ELLEN E	2874	385-037000			

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

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2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

LNL Technologies, Inc.

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

One Broadway, 14th Floor
Cambridge, MA 02142
U.S.A.

Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☐ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

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☒ Publication Fee

☐ Advance Order - # of Copies

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Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature) Richard J. Mitchell 34,519

(Date)

March 23, 2004

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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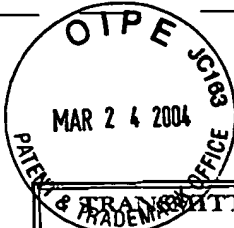
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PTOL-85 (Rev. 11/03) Approved for use through 04/30/2004.

OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE



TRANSMITTAL OF PAYMENT OF ISSUE FEE (Small Entity) (37 C.F.R. 1.311)	Docket No. 12351-US
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Applicant(s): Muthukumaran PACKIRISAMY, et al.

Serial No. 09/986.828	Filing Date November 13, 2001	Examiner. KIM, Ellen E.	Group Art Unit 2874	Confirmation No. 6159
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Invention:

PLANAR WAVEGUIDE ECHELLE GRATING DEVICE WITH ASTIGMATIC GRATING FACETS

TO THE ASSISTANT COMMISSIONER FOR PATENTSWashington D.C. 20231Attention: Box Issue Fee

Transmitted herewith is are the following for the above-identified application.

- ☒ Issue Fee Transmittal Form PTOL-85
☒ Utility Fee: \$965.00 ☐ Design Fee: _____, ☐ Plant Fee: _____

A Verified Small Entity Statement

- ☐ Is Attached.
☐ Was Filed On: _____
Date
- ☐ A check in the amount of _____ Is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 13-1717 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of \$965.00
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Signature

Dated: March 23, 2004

Richard J. Mitchell

34,519

Marks & Clerk Canada
P.O. Box 957
Station B
Ottawa, ON, K1P 5S7
Phone: (613) 236-9561

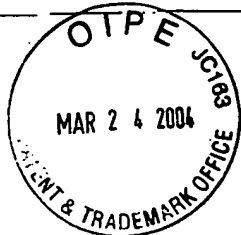
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**MAIL STOP ISSUE FEE****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Agent's Docket No. 12351-US

In re Application of

PACKIRISAMY, Muthukumaran et al.

Serial No: 09/986,828

Filed: November 13, 2001

Allowed: December 24, 2003

Confirmation No.: 6159

Art Unit: 2874

Examiner: KIM, Ellen E.

For: PLANAR WAVEGUIDE ECHELLE GRATING DEVICE WITH ASTIGMATIC GRATING FACETS

March 23, 2004

Commissioner for Patents
U.S. Patent and Trademark Office
Alexandria, VA 22313-1450**TRANSMITTAL LETTER**

Sir:

Submitted herewith are the following documents:

- Transmittal Payment of Issue Fee Form (in duplicate)
- Issue Fee Transmittal Form (in duplicate)

Respectfully submitted,

BY: Richard J. Mitchell
Reg. No. 34,519
Agent of RecordMARKS & CLERK
P. O. Box 957, Station B
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